



Commercial
Fix and Commission

V7 Twin 22kW

Enabling Works
Requirements



Welcome to the Enabling Works Guide for the V7 Twin 22kW Pod Point charger.

This guide sets out the requirements for preparing your site ahead of the installation of your Twin charger(s). It is intended for contractors, electricians, facilities managers, and anyone involved in delivering the enabling works before Pod Point attendance.

Fix and Commission means that the client is responsible for the full electrical and civil parts of the installation, with Pod attending to install the unit(s) only.

All works must be completed, and evidence provided, no later than 5 working days prior to the scheduled installation date.

Purpose of this Guide

The aim of this document is to ensure that all site preparation is carried out correctly, safely, and in full compliance with the current edition of the IET Wiring Regulations (BS 7671) and Pod Point's installation standards.

This guide will cover:

- Power and circuit protection requirements
- Cable types, sizing, and termination points
- Ducting, containment, and civil works
- Earthing and safety compliance
- Communication requirements for commissioning
- Roles and responsibilities prior to Pod Point attendance

The V7 Twin is a universal, dual-socket EV charger designed for commercial workplaces, depots, and visitor bays. It supports plug & play, RFID, and app-based charging, and includes built-in safety systems for PME compatibility. Network connectivity is required at all times for commissioning and smart services.

● **Twin V7 - Datasheet**

● **Twin V7 - User Guide**

● **Twin V7 - Guard Rail**





Power Capacity

The customer is responsible for ensuring there is sufficient power capacity.

Cabling

The customer is responsible for the installation of all cabling.



Circuit Protection

The customer is responsible for the installation of all circuit protection.

Fix & Commission

Pod Point is responsible for the fixing and commissioning of Twin(s) on site.

Enabling Works Checklist Summary

Before we attend site, the following must be completed and evidence provided to your Pod Project Manager before an installation date can be arranged:

- ✓ A dedicated supply provided for each charger
- ✓ Correctly rated circuit protection installed
- ✓ Concrete base (600mm x 600mm x 400mm) fully constructed and level
- ✓ Ducting installed and terminated central to the concrete base
- ✓ Approved cable installed with minimum 2m left at the charge point location
- ✓ Wi-Fi or 3G/4G connectivity available at the charge point position (hardwired ethernet option available on request)
- ✓ Photos of circuit protection, cable, and mount location submitted
- ✓ Draft Electrical Installation Certificate issued and shared - with earthing and supply arrangement sections completed

Concrete Base Specification

Each Twin must be positioned on a correctly prepared concrete base. This base provides a stable platform for fixings and allows the ducting to enter the mount cleanly from below:

- Size: 600mm (W) x 600mm (L) x 400mm (D)
- Construction: Non-reinforced concrete
- Finish: Surface must be level, flat, and flush with surrounding area
- Cure time: Concrete must be fully set prior to Pod Point attendance



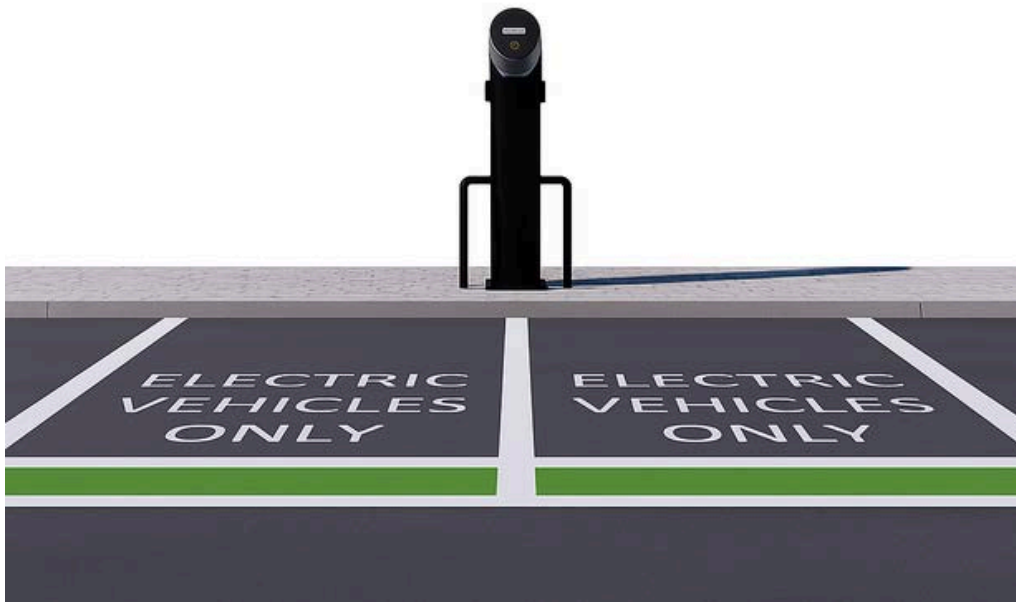
Ducting Requirements

Power and data cables must be routed via 1 duct to the centre of the concrete base to align with the Twin position.

Ducting specification:

- Type: Twin-wall plastic duct - 110mm (6m-16mm cables) - 152mm (25mm cables) diameter
- Entry: Must terminate centrally within the concrete base
- Depth:
 - Minimum 450mm deep in general areas
 - Minimum 600mm deep where crossing roadways
- Bend radius: Minimum 450mm
- Sealing: Ducts must be sealed to prevent water ingress

Off-centre ducting will prevent correct installation of the mount and may result in reattendance or aborted works.



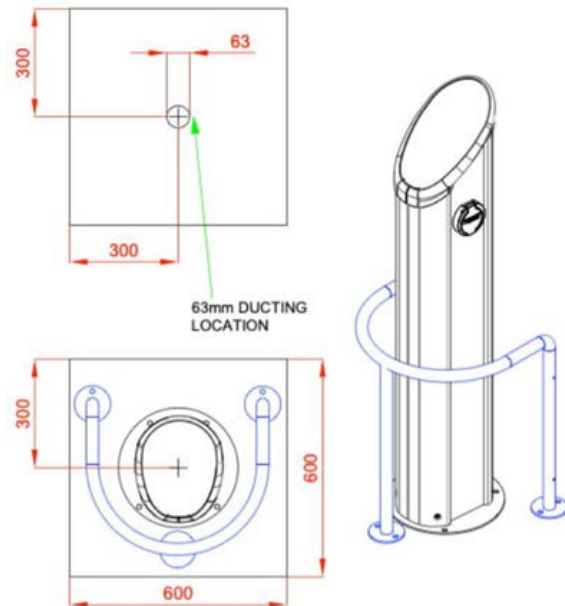
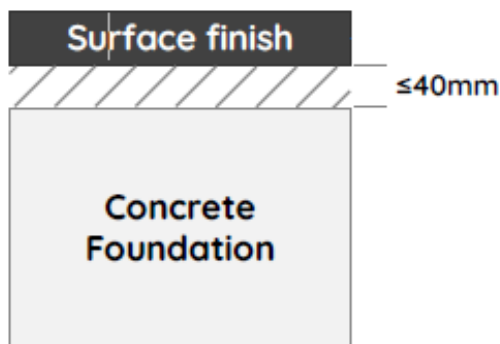
Surface Finishing

The area surrounding the concrete base should be finished prior to installation. Pod must be informed of the final surface type in advance to ensure the correct fixings are used.

Acceptable surface finishes include:

- Tarmac
- Block paving
- Concrete

Where required, a finished surround (i.e tarmac) may be installed over the concrete base, as long as the base dimensions and ducting access remain compliant.



Charger Positioning

The Solo Pro unit should be positioned:

- Behind the EV charging bay
- With the front of the unit facing directly toward the bay
- A minimum of 1.2m clear of any public footpath to ensure safe wheelchair access

Ensure the concrete base and ducting are not located where they may obstruct pedestrian routes, vehicle access, or other utilities.





Each Twin charger requires a dedicated supply capacity to support dual 22kW sockets operating simultaneously.

The customer is responsible for confirming that sufficient power is available. This must be verified by a qualified electrician in accordance with BS 7671:2018 (Amendment 3: 2024), Section 722.311.

Choose one of the following:

 Caution:

- 1) A single overcurrent protective device cannot supply power to multiple Twin chargers.
- 2) "B" curve MCBs and devices rated at 32A or below will not be accepted.

Single Cable Supply

- 1 x Three Phase Circuit
- Requires: 1 x C63 or 1 x C80 Triple Pole 10kA MCB

Dual Cable Supply

- 2 x Three Phase Circuits
- Requires: 2 x C40 Triple Pole 10kA MCBs

Diversity must not be applied when calculating load availability. The full demand of the charger must be included in the assessment. Type 2 surge protection is recommended to cover the EVCP installation.

Single Supply (1 x 3 Phase Circuit)	Dual Supply (2 x 3 Phase Circuits)
1 x C80 Triple Pole 10kA MCCB/MCB or 1 x C63 Single Pole 10KA MCB (one door must be downrated by 1 Amp)	2 x C40 Triple Pole 10kA MCB
Requires a minimum 63A rated overcurrent protection	Requires a minimum 40A rated overcurrent protection

 The Following Will Not Be Accepted:

- RCD's upstream unless TT system (see "Earthing" section)
- Shared protection between multiple chargers – each unit requires dedicated protection
- O-PEN Matt:E or similar devices – not required and should not be installed

Each Twin charger is to be supplied via a dedicated radial circuit(s). All cables must be installed in accordance with BS 7671:2018 (Amendment 3: 2024) and sized correctly for the load and reference method.

Cable Selection

- Minimum size: **6mm²**
- Maximum size: **25mm²**
- Cores: **5**

⚠ The CPC must be a dedicated core – the armour of an SWA must not be used as the sole CPC. The armour of the SWA cable must be earthed at the supply end of the circuit.

Full cable calculations must be carried out to confirm the cable is sized correctly and the installation is compliant. See previous page for cabling options

If cable calculation show that a cable larger than 25mm is required, please highlight this to your Pod Project Manager

Single Supply	Dual Supply
1 x Three Phase Circuit Single Cable Installation	2 x Three Phase Circuits Dual cable installation
1 x 5 core SWA Cable (L1+L2+L3+N+E)	2 x 5 core SWA Cable (L1+L2+L3+N+E)
Cable sizes to be calculated based on cable length and reference method for a 63A or 80A supply depending on circuit protective device chosen.	Cable sizes to be calculated based on cable length and reference method for a 40A supply.



Approved Cable Types

- SWA (Steel Wire Armoured)
- NYY-J (Hi-Tuff)
- EV Ultra



Additional Requirements

- Leave at least 2 metres of spare cable coiled above ground at the charger base location
- Provide only one or two dedicated cables per unit – loop-in / loop-out configurations to multiple units are not supported

Twin units are PME-compliant and **do not** require an external O-PEN Matt:E device or local earth rod on TN-C-S or TN-S systems. All installations must comply with BS 7671:2018 (Amendment 3: 2024), and the chosen earthing system must be confirmed with your Pod Point Project Manager and noted on your EIC.

TN-C-S (PME)

- Fully supported
- No earth rod or O-PEN device needed
- Do not install additional PME fault detection (i.e. O-PEN Matt:E devices)

TN-S

- Fully supported
- Must be confirmed as a private transformer supply not subject to PME conversion
- If unsure, treat as PME



Where a TT earthing system has been adopted, a suitably rated 100mA-300mA time delayed RCD must be installed at the source of supply, inline with the overcurrent device (MCB/MCCB).

TT Systems

TT is only accepted where no TN system is available. In these cases:

- A Schneider 100–300mA RCD (DC blinding compliant - tested to BS EN 60947-2) must be installed at the source
- If not using Schneider branded RCD, a Type B RCD rated for EV use is required
- Earth electrode resistance must be $<100\Omega$
- 16mm² minimum G/Y earth cable to be used from earth electrode
- Rod must be within 5m, mechanically protected, and securely clamped
- Earth conductors must be correctly terminated to earth electrode using the correct clamp. Tape clamps will not be accepted

Local rods at the charge point are not accepted

All TT systems must be pre-approved by your Pod Project Manager

! Touch Potential

To comply with safety and earthing requirements, no other electrical equipment should be installed within 2.5 metres of the Twin charger or its intended bay(s). This includes:

- Lamp posts
- Powered bollards
- Electrically operated gates
- Any other mains-powered items

If this clearance cannot be achieved, then all equipment within the 2.5m zone must share the same earthing system as the EV charger.

Overview

Pod Point Twin units require a live data connection for commissioning, remote support, and smart features.

Units can connect via either:

- Built-in 3G/4G (default for most installs)
- 2.4GHz Wi-Fi



⚠ Units without a reliable connection cannot be commissioned or supported.

Connection Method: 3G/4G

- Twin chargers can be ordered with a router built in
- Pre-installed 3G/4G router (look for “-RO” on the Twin SKU label)
- Automatically connects to the strongest available mobile network
- No setup required
- Suitable for most outdoor and open-air environments
- Only 1 Twin in every 5 needs a router, assuming units are within a 25m uninterrupted line of sight

Inform your Pod Point Project Manager if extra routers are required due to distance or signal obstruction

Wi-Fi Requirements

- 2.4GHz band only (5GHz is not supported)
- Private, secured network (no public hotspot or redirect login)
- Static Wi-Fi name (SSID) and password provided in advance
- SSID name must be under 10 characters
- Password must be under 15 characters
- Wi-Fi credentials must be shared with Pod Point before installation
- Passwords should remain unchanged, notify Pod Point of any future changes



✓ Pre-Installation Evidence Checklist

Please provide the following to your Pod Project Manager at least 5 working days prior to installation to confirm readiness. If this evidence is not provided in time for review, then your installation date may need to be rescheduled.

📷 Photos Required

- Consumer Unit / Distribution Board
 - Close-up of protection devices (MCB, MCCB)
 - Labels and ratings must be clear
 - Include upstream devices if present
- Cable Route
 - Wide shot of installed cable (e.g. in containment or surface fixed)
- Spare Cable at Charger
 - Minimum 2m of coiled cable left at each charger position
- Earthing (if TT system)
 - Show RCD, earth rod, clamp, and connected cable
- Charger Location
 - Wide shot of the proposed install area
 - Include parking bays in frame
- Mounting Surface
 - Clear shot of the concrete base(s) with the cable in position

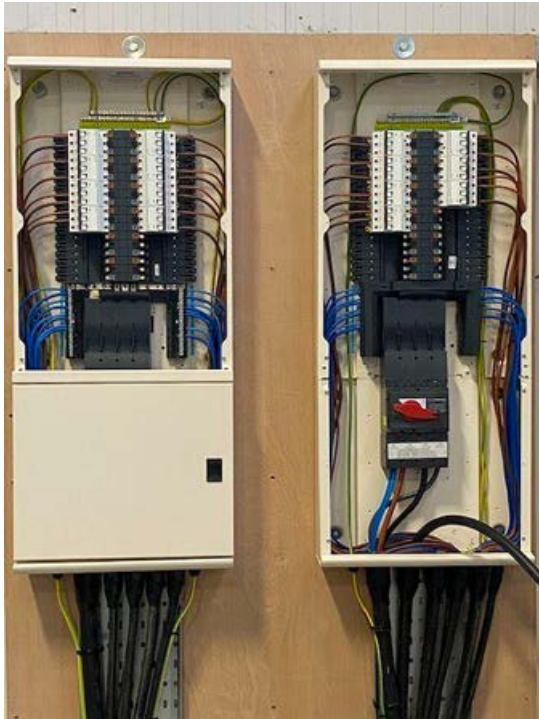
📄 Documents Required

- Draft Electrical Installation Certificate (EIC)
 - Supply type & earthing arrangement
 - Final circuit details
 - Dead test results
 - Protection device type & rating
 - Cable type, cores, and size
- Cable calculations if available
- Site address & access details
 - Parking instructions, delivery notes, and access times
- Storage confirmation
 - Twin(s) and guard rails can be delivered and stored securely on site ahead of Pod attendance

On completion your Pod Project Manager will email the client and/or end user their Pod Pack to set up the Site Management Service .

⚠ **Incomplete or unclear evidence may result in delayed installation or reattendance fees**

**Supply
Configuration**

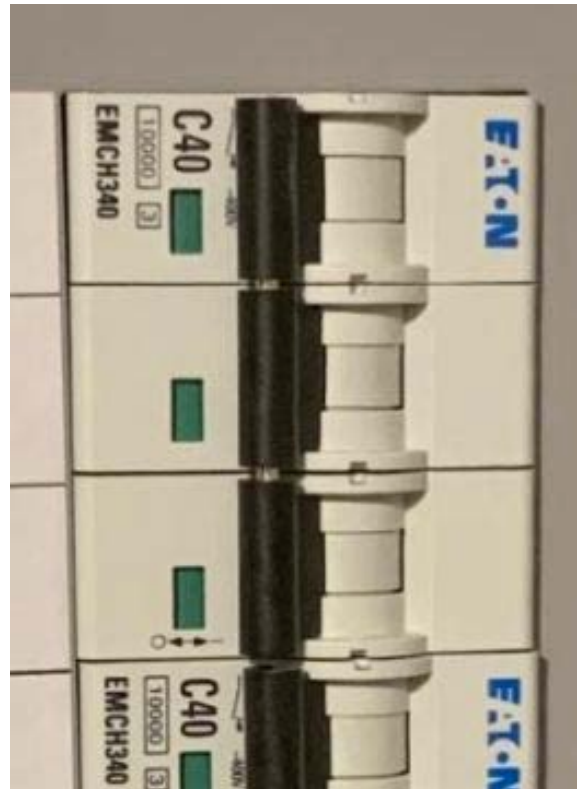


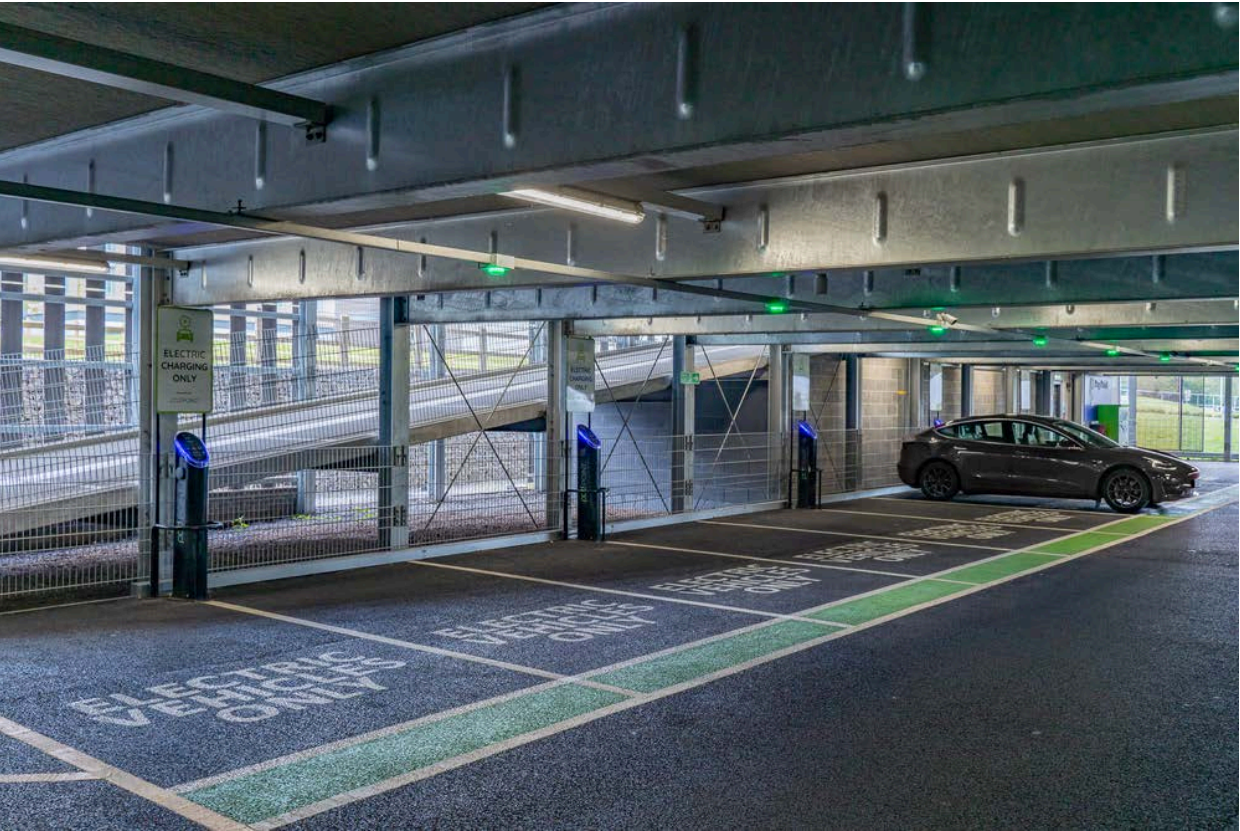
**Single Cable - 1 x C63A Triple Pole
MCB**

**600 x 600 Concrete base with
2m of cable**



**Dual Cable - 2 x C40A Triple Pole
MCB**







Contact Us

If you have any questions, please contact the Project Manager assigned to your installation. If you're unsure who your Pod Point contact is, please email us with:

- Your full installation address
- Your case number (if known)

 Email: Enquiries@pod-point.com

 Website: www.pod-point.com

Company Information

Pod Point Limited

Registered in England: No. 6851754

Registered Office:

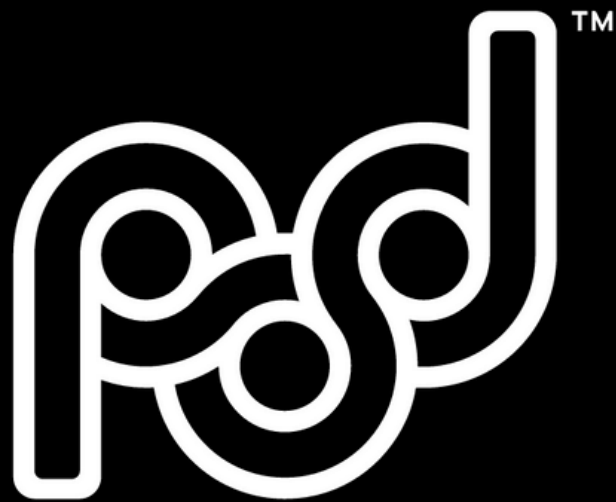
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